

Notice of Allowability

Application No.

09/370,981

Examiner

Justin R Fischer

Applicant(s)

OGAWA, YUICHIRO

Art Unit

1733

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11 February 2005.
2. ☒ The allowed claim(s) is/are 1, 2, 8, and 9 (renumbered 1-4).
3. ☒ The drawings filed on 10 August 1999 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 030705.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Election/Restrictions

1. Claims 1, 2, and 9 are directed to an allowable product. Pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claim 8, directed to a non-elected species, is now subject to being rejoined. Claim 8 is hereby rejoined and fully examined for patentability under 37 CFR 1.104.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the claims:

Claim 8: the status identifier "withdrawn" is deleted and replaced with the status identifier --original--.

Allowable Subject Matter

3. Claims 1, 2, 8, and 9 (renumbered 1-4) are allowed. The following is an examiner's statement of reasons for allowance:

It is well known in the tire industry to include multiple bead cores in a bead region, and furthermore, it is well known to provide multiple carcass arrangements (positioning of carcass plies with respect to bead cores) in such tire constructions, as

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shown for example by Shibata (JP 6-191238, of record) and Kakigi (JP 05016620, of record). Additionally, while the carcass assemblies of Shibata and Kakigi would be expected to be in the form of plies (plurality of reinforcing elements embedded within coating rubber), the use of continuous cords to define a carcass assembly is known in the tire industry, as shown for example by Ueyoko (US 5,885,387, of record) and Slegenthaler (EP 0586315, of record). In particular, the use of a continuous cord improves bead durability and contributes to the reduction of tire weight, both of which are desirable in a wide variety of tire constructions. However, the prior art references of record failed to suggest, disclose, or teach a multi bead core construction in which the continuous cord successively repeats roundtrip between the bead cores and has a roundtrip return portion with a terminal part that extends along an outer side face of an axially outermost bead core. In Kakigi, the roundtrip return portion does have a terminal part that extends along the outer face of an axially outermost bead core; however, the cord does not repeat roundtrip between the respective bead cores (main portion of carcass extends along the axially innermost surface of the axially innermost bead core). In contrast to this construction, the tire of Shibata is formed of a cord that repeats roundtrip between the respective bead cores; however, the roundtrip return portion does not have a terminal part that extends along the outer face of an axially outermost bead core. As such, one of ordinary skill in the art at the time of the invention would not have found it obvious to form the tire of either Shibata or Kakigi in accordance to the limitations of the claimed invention.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion


4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Justin R Fischer** whose telephone number is **(571) 272-1215**. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Blaine Copenheaver can be reached on (571) 272-1156. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Justin Fischer

March 7, 2005


JEFF H. AFTERGUT
PRIMARY EXAMINER
GROUP 1300